

# Sonoma County Groundwater

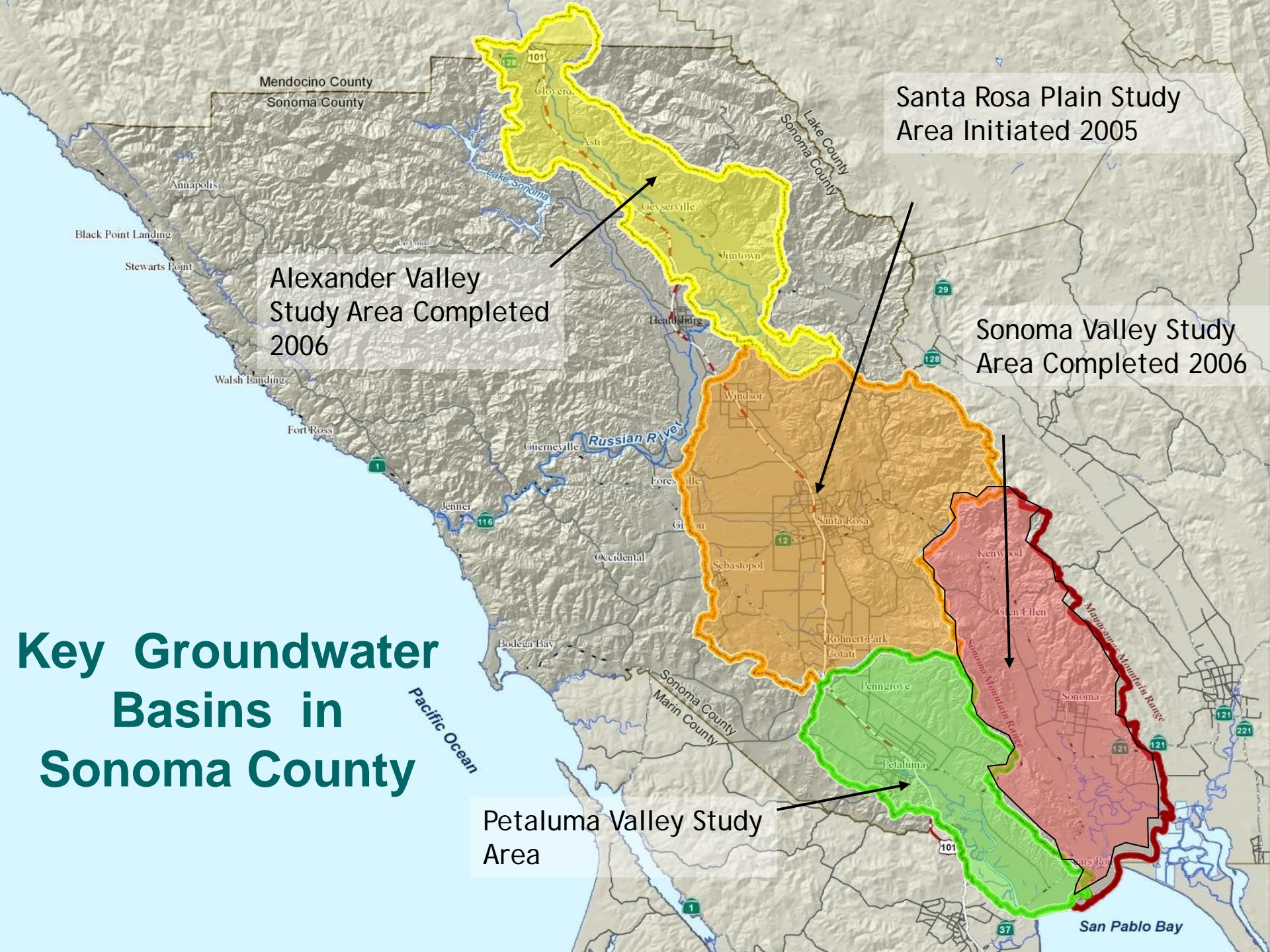
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Tim Anderson

Sonoma County  
Water Agency





Santa Rosa Plain Study  
Area Initiated 2005

Alexander Valley  
Study Area Completed  
2006

Sonoma Valley Study  
Area Completed 2006

Petaluma Valley Study  
Area

# Key Groundwater Basins in Sonoma County

# SCWA / USGS Sonoma Valley Study



In cooperation with the  
SONOMA COUNTY WATER AGENCY

**Geohydrological Characterization, Water-Chemistry,  
and Ground-Water Flow Simulation Model of the  
Sonoma Valley Area, Sonoma County, California**



## Key Findings:

- Increased pumping between 1975-2000 (6,000 to 8,500)
- Localized decline of groundwater levels
- 17,000 acre-ft decline groundwater storage
- Salinity issues in southern part of Valley

(units: acre-feet/year)



# Santa Rosa Plain

About 12,000 wells

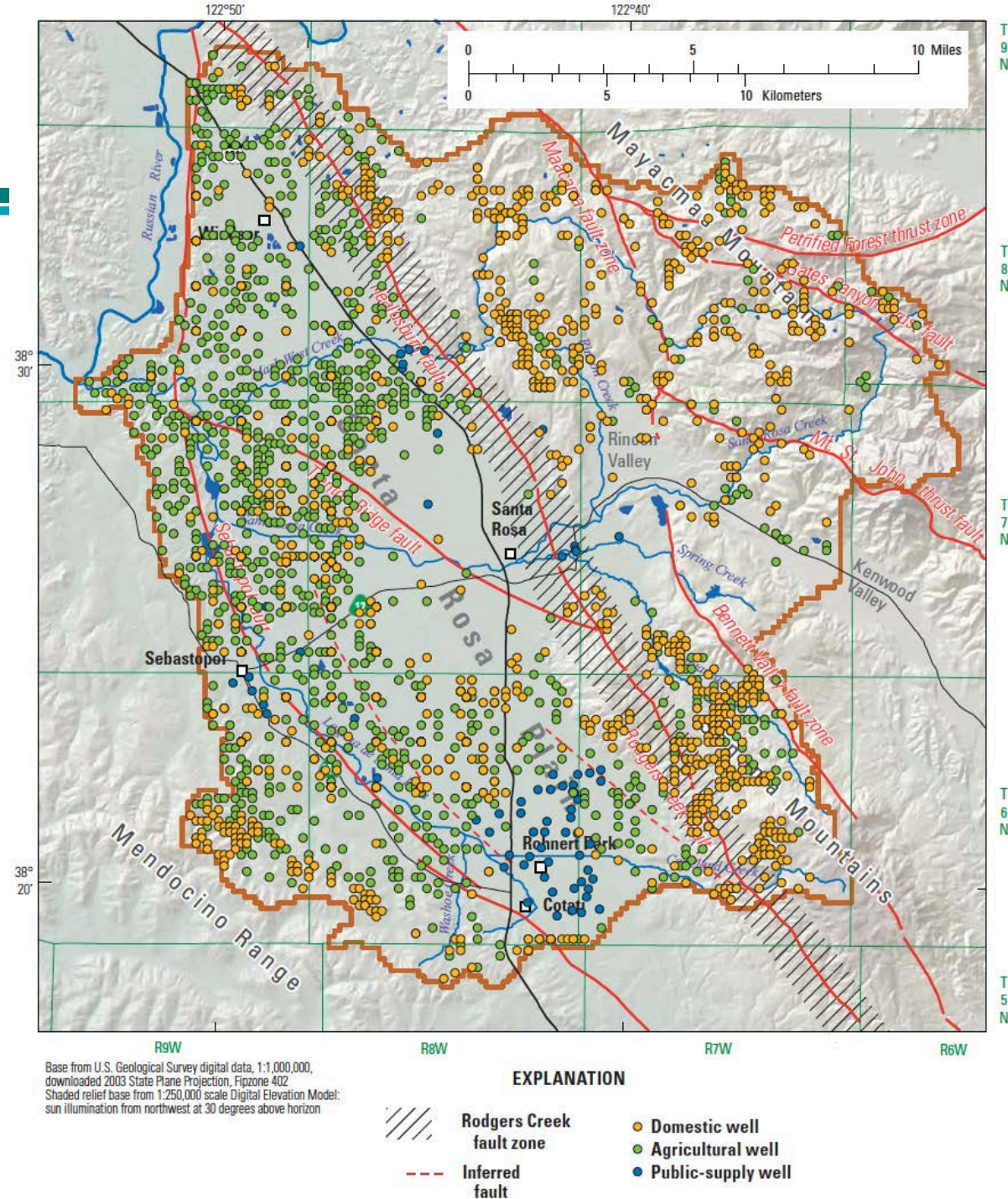
Reported or  
Estimated Discharge:

Municipal  
3,900-10,100

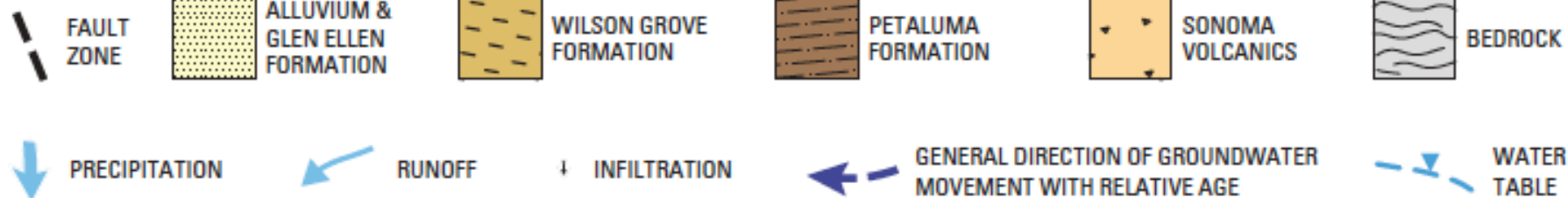
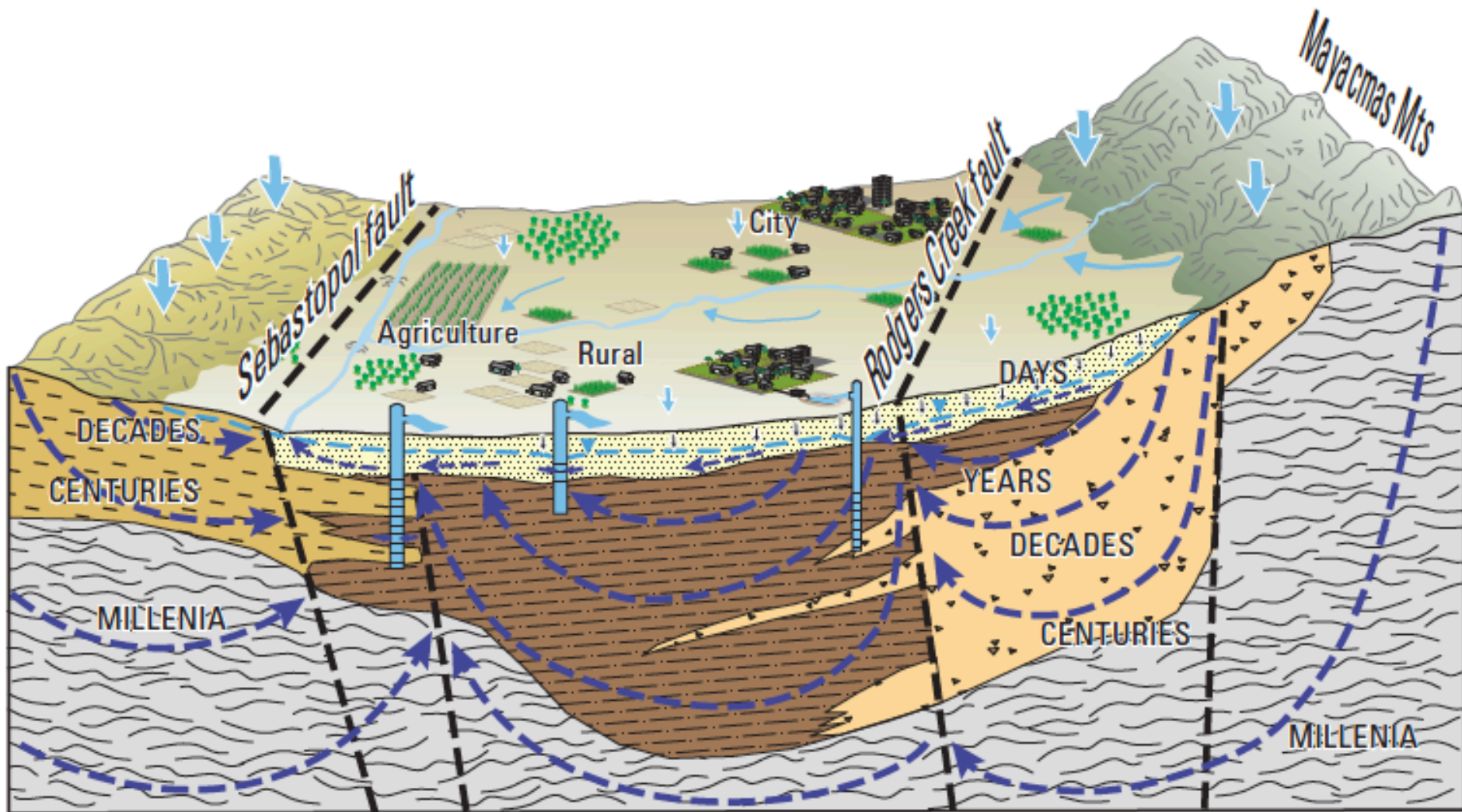
Ag  
8,900-46,600

Domestic  
11,000-23,200

*(units: acre-ft /year)*







# Conceptual Groundwater Banking Schematic

## Aquifer Storage and Recovery

